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METAL FASTENERS FROM CANADA

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WHERE IT COUNTS...



The men of Canada's metal fastener industry don't expect to make headlines. The common nut or bolt doesn't have the same glamor as micro-circuitry or fluidics. Even the more exotic fastener is unlikely to excite much attention in the business section of the nation's newspapers. But Canadian metal fastener manufacturers are appreciated where it counts — with the many industries they serve in more than 60 countries of the world.

It is no accident that Canadian companies produce exactly the right fastener for the job, whatever it may be — no coincidence that made-in-Canada fasteners are crimped, turned, driven, bucked and clipped in every part of the globe.

- As a result of a continuing program of research and development, the Canadian industry today is in step with the rest of the world in the use of new metallurgy processes, and in some important areas Canada leads the way
- The Canadian fastener industry knows a great deal about the forces that pull things apart — vibration that unfastens, torque effect that fractures. These hazards are studied and more than met by the designs of highly skilled men
- The automotive, construction, farm machinery and other industries which use

highly engineered, automated assembly machines continually demand closer tolerances and ever greater durability. The Canadian fastener industry is always abreast of this universal upgrading of product warranties

- Canadian manufacturers and their designers are fortunately able to draw on a wide range of materials — mild steel, high carbon steel, stainless steel, bronze, aluminum and titanium among them
- As well as maintaining high production of standard fastener and screw machine products, the versatile Canadian industry meets the most demanding customer specifications — often on a short-run basis
- Competitive prices, convenient shipping arrangements and an enviable reputation for fast delivery from well-stocked warehouses are only a few more good reasons for buying from Canada

This booklet, produced by the Canadian Departments of Industry and Trade and Commerce in co-operation with the companies listed, is designed to assist buyers to locate reliable sources of supply. The chart on the opposite page will help. Further information is readily available from your closest Canadian government trade office.

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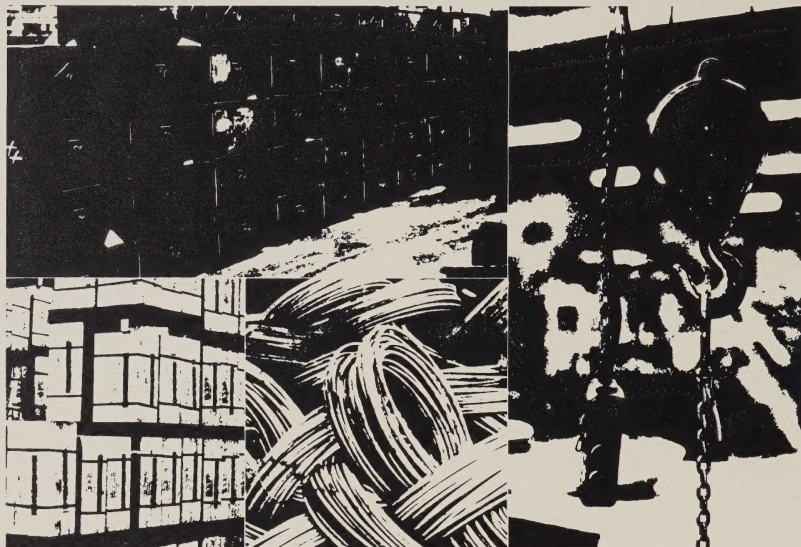
Ferrous and Non-Ferrous Fastener Products

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ACCESSORIES MANUFACTURERS LIMITED

595 St. Remi Street
Montreal 207, Quebec, Canada

Contact: A. L. MacLaurin
Tel: (514) 931-1385



Accessories Manufacturers Limited employs 195 skilled workers in the custom manufacture of light metal parts. The 95,000 square feet (8,835 m²) of plant is divided into efficient shop areas: a fully equipped screw machine shop; large press shop; second operation, metal finishing and specialty shops for product development and electrical sub-assemblies. The plating shop handles chrome, bright nickel, brass, copper and cadmium. Established in 1922, the company gained valuable experience in defence work during World War II in the production of aircraft parts, ammunition components and naval switch boxes. Accessories Manufacturers currently produces large components in the defence equipment area.

PLANT LOCATION

Accessories Manufacturers Limited
595 St. Remi Street
Montreal 207, Quebec, Canada

TYPES OF PRODUCTS

Special nuts, bolts, screws, washers, rivets, cotter pins, threaded rods and screw machine products

COMPOSITION

Steel, stainless steel, brass, bronze, Monel, aluminum, nylon and fiber

MANUFACTURING PROCESSES

Screw machine and stampings

SIZE RANGE

1/8" - 2 1/4" (3.175 mm - 57.15 mm) diameter

MANUFACTURING SPECIFICATIONS

American Standard; BSF; BSW; mill approved (DDP)

SPECIAL FACILITIES AND SERVICES

Electroplating

AUTOMOTIVE HARDWARE LIMITED

55 Brown's Line Road
Toronto 14, Ontario, Canada

Contact: C. Wehner, export manager

Tel: (416) 251-4131

Telex: 02-29868 Cable: AUTOHARD



Automotive Hardware Limited, which opened for business as a one-man trading company in 1932, is now one of Canada's largest suppliers of the ferrous fasteners and brass fittings manufactured by its affiliates, Federal Bolt & Nut Corp. Ltd. and Automatic Screw Machine Products Limited. The three companies are located in a 200,000-square-foot (18,580-m²) Toronto plant which also serves as headquarters for Automotive Hardware's international sales department. At present the company has representatives in 30 countries.

PLANT LOCATION

Automotive Hardware Limited
55 Brown's Line Road
Toronto 14, Ontario, Canada

TYPES OF PRODUCTS

Bolts — structural bolts and nuts, brake block, tractor pad bolts and nuts, U-bolts

Screws — cap, set, small, high strength cap, socket screw products

Nuts, washers, cotter pins, studs and alloy heat-treated bars, threaded rods,

corrosion-resistant fasteners, brass fittings

COMPOSITION

Mild and medium carbon steel, "Fedalloy" high tensile steel, brass, silicon bronze, stainless steel

MANUFACTURING PROCESSES

Cap screws and bolts up to 1¹/₄" (31.75 mm) diameter — cold formed, roll threaded; 1¹/₂" (38.1 mm) diameter and above — hot formed, cut threaded; brass fittings — automatic screw machines

SIZE RANGE

Cap screws and bolts 1¹/₄" - 2¹/₂" (6.35 mm - 63.5 mm) diameter; small screws No. 2 - 3³/₈" (9.525 mm) diameter; socket screw products No. 0 - 1" (25.4 mm) diameter; brass fittings 1¹/₄" - 2" (6.35 mm - 50.8 mm) diameter; threaded rod and studs 1¹/₄" - 2" (6.35 mm - 50.8 mm) diameter

MANUFACTURING SPECIFICATIONS

ASTM; American Standard; UNF and UNC

SPECIAL FACILITIES AND SERVICES

Heat treating, plating, induction hardening

CAPITAL METAL INDUSTRIES LIMITED

H. PAULIN & CO., LIMITED
55-61 Milne Avenue
Scarborough (Toronto), Ontario,
Canada

Contact: Stanley F. Paulin
Tel: (416) 694-3351
Telex: 02-29293 Cable: AUTOGENEX



Capital Metal Industries Limited and H. Paulin & Co., Limited have more than half a century of experience in the manufacture of a wide range of metal stampings, screw machine and cold headed products. Both standard and special parts are supplied to world markets from this modern plant near Toronto where constant research and development, strict quality controls and the latest high-speed equipment are put to good use. Large stocks of standard threaded fasteners are kept in Toronto, Winnipeg, Montreal, Calgary and Vancouver warehouses for fast service to domestic and export customers.

PLANT LOCATION

Capital Metal Industries Limited
H. Paulin & Co., Limited
55-61 Milne Avenue
Scarborough (Toronto), Ontario, Canada

TYPES OF PRODUCTS

Machine, tapping, weld, wood and cap screws; machine, carriage, step and plow

bolts; washers, solid rivets, nuts, cotter pins, threaded rods, screw machine products, clevis and taper pins — all in both standard and special designs

COMPOSITION

Carbon and alloy steels, stainless steel, bronze, brass, copper, aluminum, Monel and cold forgeable metals

MANUFACTURING PROCESSES

Cold forming, roll and cut threading, screw machine, power press

SIZE RANGE

No. 00 through 2 1/2" (63.5 mm) diameter inclusive; lengths to customers' specifications

MANUFACTURING SPECIFICATIONS

American Standard — standards and specials (BSW; BSF; metric; specials to order when required in production quantities)

SPECIAL FACILITIES AND SERVICES

Heat treating, cadmium and zinc plating, hot galvanizing, phosphating, etc.

COLLISON-GOLL LIMITED

41 Millwick Drive
Weston, Ontario, Canada

Contact: Harvey I. Collison
Tel: (416) 741-8981



Collison-Goll Limited has moved with the times since it was founded in 1945. Then, the company operated several single-spindle automatic screw machines. Today, nine multi-spindle and 14 single-spindle automatic screw machines, all of the latest design, are in full production at Collison-Goll's newly acquired, extensive plant. These facilities are complemented by a full secondary operations department consisting of turret lathes, production mills and drills. Auxiliary equipment is available for work on any complex parts which may be required by the customer's specifications. Full tooling and inspection facilities ensure efficient production schedules.

PLANT LOCATION

Collison-Goll Limited
41 Millwick Drive
Weston, Ontario, Canada

TYPES OF PRODUCTS

Custom screw machine products of all types (cut and rolled threads) for automotive, electronic, armament instrument and general trade

COMPOSITION

Brass, copper, steel, stainless steel, various steel alloys, aluminum, Monel and plastics

MANUFACTURING PROCESS

Automatic screw machine (single and multiple spindle)

SIZE RANGE

All diameters up to 1 1/4" (31.75 mm)

MANUFACTURING SPECIFICATIONS

To customer specifications

GREGORY FASTENERS, LTD.

2 Meridian Road
Rexdale (near Toronto), Ontario,
Canada

Contact: J. E. Thornton
Tel: (416) 677-3010
Telex: 00229936 Cable: NELWELD



Gregory Fasteners, Ltd. became the corporate name in 1960 of Nelson Stud Welding Corporation Canada, Ltd., a sales, service and manufacturing organization which had been established two years earlier. Company growth has been rapid — Gregory Fasteners now occupies six times as much plant space as it did five years ago. Company products are used in highly specialized stud welding processes and management conducts intensive in-plant training programs for those who employ these particular techniques.

PLANT LOCATION

Gregory Fasteners, Ltd.
2 Meridian Road
Rexdale (near Toronto), Ontario, Canada

TYPES OF PRODUCTS

Metal studs and equipment using the electric arc and the drawn arc capacitor discharge stud welding processes

COMPOSITION

Standard series, low carbon steel, stainless steel, aluminum; specials include alloy steels, Monel, brass, copper, titanium

MANUFACTURING PROCESSES

Variety of methods including cold forming, screw machine thread rollers, punch press, wire forming, hot heading

SIZE RANGE

$\frac{1}{8}$ " - $1\frac{1}{4}$ " (3.175 mm - 31.75 mm) diameter and square, hexagonal, rectangular special shapes

MANUFACTURING SPECIFICATIONS

Navy and other military specifications; customer specifications

SPECIAL FACILITIES AND SERVICES

Heat treating; zinc, copper, cadmium, nickel plating; deburring

INDUSTRIAL FASTENERS LTD.

Marieville, Quebec, Canada

Contacts: M. Herling, vice-president;

H. Winlard, export manager

Tel: (514) 658-8741 or 866-5853

Telex: 01-20142



Industrial Fasteners Ltd. has expanded rapidly since it was established in 1959. The Quebec company now has a wide sales network throughout Canada and the United States and 18 outlets to markets in other countries. A recent addition to the efficient and modern Marieville plant is the huge cold forge bolt-maker which is capable of producing automatically about 2,200 pounds (1,000 kg) of finished products — up to 1½ inches (38.1 mm) — every 10 minutes.

PLANT LOCATION

Industrial Fasteners Ltd.
Marieville, Quebec, Canada

TYPES OF PRODUCTS

Steel bolts, nuts, capscrews, threaded rods, structural bolts

COMPOSITION

Steel — grades 2, 5 and 8

MANUFACTURING PROCESSES

Cold and hot formed

SIZE RANGE

¼" - 1½" (6.35 mm - 38.1 mm) diameter

MANUFACTURING SPECIFICATIONS

American Standard

SPECIAL FACILITIES AND SERVICES

Heat treating, galvanizing and plating

LINREAD CANADA LTD.

Hayes Avenue
Guelph, Ontario, Canada

Contact: Cyril Smith

Tel: (519) 824-0070

Cable: LINREAD, GUELPH



Linread Canada Ltd. began manufacture of fastener products in 1958 and has stayed in step with advances in technology throughout the past decade, continually adding new equipment to its Ontario plant. The company supplies a wide range of industries including appliances, radio, television, automobile, communication and electrical fitting manufacturers. Finished products are warehoused in Montreal and Winnipeg as well as in Guelph to ensure fast, efficient service to customers at home and abroad. Skilled personnel are available to assist in the design and use of metal fasteners including the new "Taptite" thread rolling screws.

PLANT LOCATION

Linread Canada Ltd.
Hayes Avenue
Guelph, Ontario, Canada

TYPES OF PRODUCTS

Taptite (registered) thread rolling screws; machine, drive, sheet metal screws; screw and washer assemblies; special cold forged parts

COMPOSITION

Steel, stainless steel, brass, bronze, copper, aluminum

MANUFACTURING PROCESSES

Cold forged, rolled thread

SIZE RANGE

No. 2 - $\frac{3}{8}$ " (9.525 mm) diameter

MANUFACTURING SPECIFICATIONS

Canadian and American Fastener Standards; individual customer specifications

SPECIAL FACILITIES AND SERVICES

Technical service to design and production engineers

LISTER BOLT & CHAIN WORKS LIMITED

301 West 5th Avenue
Vancouver 10, British Columbia,
Canada

Contact: John H. Long

Tel: (604) 879-6511

Telex: 04-5721 Cable: CHAINS VANCOUVER



Lister Bolt & Chain Works Limited, established in 1911, is one of Western Canada's leading producers of chain, bolt and forged steel products. Highly trained personnel, operating special machinery, produce the larger range of chain and bolting products required for logging, mining, construction, marine, milling and utility operations. The 750-ton National Maxipress installed in the Lister plant introduced closed die hot forging to Western Canada. This enterprising company emphasizes quality production and speedy delivery.

PLANT LOCATIONS

Lister Bolt & Chain Works Limited
301 West 5th Avenue
Vancouver 10, British Columbia, Canada
and

2021 Alberta Street
Vancouver, British Columbia, Canada

TYPES OF PRODUCTS

Bolts, machine — square, hexagon and countersunk head, drop forged eye, U-bolt, fetter drive, tylag, griplock and specials; carriage, drift and lag

Rods — upset and plain
Anchoring bolts — rock, mechanical and ground

Pole line hardware — complete range of Class M

COMPOSITION

Steel, aluminum, stainless steel

MANUFACTURING PROCESSES

Hot formed upsetting, roll threading, cut threading

SIZE RANGE

Heading — $\frac{3}{8}$ " - $2\frac{1}{2}$ " (9.525 mm - 63.5 mm) diameter; cut threading — $\frac{1}{4}$ " - 4" (6.35 mm - 101.6 mm) diameter, UNC and UNF; roll threading — $\frac{1}{4}$ " - $1\frac{1}{2}$ " (6.35 mm - 38.1 mm) diameter, UNC and UNF; drop forging — one ounce to 10 pounds (28.35 grams - 4.54 kg)

MANUFACTURING SPECIFICATIONS

USS; SAE; CSA

SPECIAL FACILITIES AND SERVICES

High capacity production; 500,000-pound (227,000-kg) tensile testing machine; Rockwell hardness tester

MORROW SCREW & NUT CO. LIMITED

125 McCormack Street
Toronto 9, Ontario, Canada

Contact: Guy Hamel, director of
marketing

Tel: (416) 767-1145

Telex: 02-2512



Morrow Screw & Nut Co. Limited is a prominent Canadian producer of nuts, bolts and a wide range of metal products manufactured on special automatic screw machines. More than 80 years of experience in industry are behind Morrow's contemporary operations. A highly skilled staff working in a plant area of 150,000 square feet (13,935 m²), which includes heat treating and plating facilities, serves customers in many parts of the world. The automotive, aviation, appliance, arsenal, shipbuilding, electronics, mining and construction industries are among those using Morrow products.

PLANT LOCATION

Morrow Screw & Nut Co. Limited
Ingersoll, Ontario, Canada

TYPES OF PRODUCTS

Low and medium carbon bolts, nuts, alloy studs and automatic screw machine products

COMPOSITION

Steel, stainless steel, Everdur, Monel, aluminum, brass

MANUFACTURING PROCESSES

Cold heading, roll thread, hot formed (nuts), screw machine, cold drawing

SIZE RANGE

Diameter $\frac{1}{4}$ " - $\frac{5}{8}$ " (6.35 mm - 15.875 mm); length up to 6" (152.4 mm); up to $3\frac{1}{2}$ " (88.9 mm) diameter for screw machine products

MANUFACTURING SPECIFICATIONS

American Standard, military approval, customer specifications

SPECIAL FACILITIES AND SERVICES

Heat treating, zinc and phosphate plating, cold drawing, all necessary testing facilities

OXFORD PRECISION PRODUCTS LIMITED

P.O. Box 162
Parkinson Road East
Woodstock, Ontario, Canada

Contact: H. W. Heath
Tel: (519) 539-1783



Oxford Precision Products Limited has specialized in custom machine work since it was founded in 1950. Small precision parts are supplied to companies manufacturing a wide variety of products — agricultural machinery, appliances, automotive assemblies and conveying equipment. Basic production is carried out on multi-spindle screw machines and turret lathes, supported by second operation equipment for drilling, tapping, threading and milling. Special grinding, heat treating and plating operations are available through associate companies and can be incorporated into the price structure of Oxford-made parts. The company plant is close to transportation facilities.

PLANT LOCATION

Oxford Precision Products Limited
Parkinson Road East
Woodstock, Ontario, Canada

TYPES OF PRODUCTS

Screw machine products of the fastener variety

COMPOSITION

Steel, stainless steel, brass, bronze, aluminum

MANUFACTURING PROCESS

Screw machine

SIZE RANGE

$\frac{1}{8}$ " - 2" (3.175 mm - 50.8 mm) diameter

MANUFACTURING SPECIFICATIONS

Customer's specifications

SPECIAL FACILITIES AND SERVICES

Available through associate companies

PARMENTER & BULLOCH

DIVISION OF TEXTRON CANADA LIMITED

15 Clarence Street
Gananoque, Ontario, Canada

Contacts: John J. Beamish, marketing manager;
N. R. Kennedy, sales office manager
Tel: (613) 382-2101 Telex: 026-215



Parmenter & Bulloch, Division of Textron Canada Limited, has been engaged in cold heading processes since its formation in 1864. The company was among Canadian pioneers in the production of automatic rivet setting machines and extrusion of semi-tubular rivets. Canadian-made aircraft rivets to AN and MS specifications were also developed by this Ontario company. As part of a continuing program, Parmenter & Bulloch's research staff are working on faster, more economical and improved methods of cold heading. Even now parts are manufactured to closer tolerances than previously thought possible by this means. Highly skilled staff and a well equipped department for in-plant manufacture of heading tools makes this company a major supplier to automotive, aircraft and general industries.

PLANT LOCATION

Parmenter & Bulloch
Division of Textron Canada Limited
15 Clarence Street
Gananoque, Ontario, Canada

TYPES OF PRODUCTS

Solid, split, semi-tubular and tubular

rivets; specialty cold headed items; wire formings, flat burrs, washers

COMPOSITION

Carbon steel, stainless steel, aluminum, brass, copper, Monel, silicon bronze, Inconel

MANUFACTURING PROCESSES

Cold formed and roll formed

SIZE RANGE

Diameter $\frac{1}{8}$ " - $\frac{5}{8}$ " (1.588 mm - 15.875 mm);
length to 4" (101.6 mm)

MANUFACTURING SPECIFICATIONS

Canadian Standards; American Standards; military specifications AN, MS, NAS; Department of Transport approval

SPECIAL FACILITIES AND SERVICES

Atmosphere controlled bright annealing, aluminum solution, heat treat and age; aluminum anodizing, nickel, copper, brass, cadmium, zinc and tinned barrel plating; baked enamel, salt spray equipment; tensile and shear testing; microscopic examination of metal structure, research and engineering departments; automatic hopper-fed tubular rivet setting equipment

P. L. ROBERTSON MANUFACTURING COMPANY LIMITED

15 Brydon Drive
Rexdale (near Toronto), Ontario
Canada

Contact: M. J. Warren, vice-president marketing
Tel: (416) 248-5541
Telex: 02-21222 Cable: "SCREWS"



P. L. Robertson Manufacturing Company Limited was founded in 1908 to produce the Robertson SCRULOX recessed head screws. Wide acceptance of these led the company to expand into manufacture of a variety of fasteners, cold headed and cold upset products. Plants and subsidiaries in the United States, Puerto Rico and in Canada supply customers throughout the world.

PLANT LOCATIONS

P. L. Robertson Manufacturing Company Limited
Milton, Ontario, Canada
and
Montreal, Quebec, Canada

TYPES OF PRODUCTS

Wood, machine, self-tapping, thread cutting, self-drilling screws; SEMS and TEKS screws; bolt products; threaded rods and spiral cold headed parts with secondary operations

COMPOSITION

Steel, brass, 300 and 400 stainless series,

bronze, Monel, aluminum, 24ST, 65ST, titanium

MANUFACTURING PROCESSES

Wire drawing, spheroidizing and complete heat treating facilities; cold heading plant with roll threading, pinch pointing and heat treating operations; hot heading and threading, point slotters, SEMS and Gridley machines for secondary operations

SIZE RANGE

No. 2 gauge up to and including 1" (25.4 mm) diameter; lengths up to 30" (762 mm)

MANUFACTURING SPECIFICATIONS

Standard lines carried with American Standard threads — others on application

SPECIAL FACILITIES AND SERVICES

Complete plating plant on premises; wire drawing mill; drawn steel division; screw machine division for secondary operations; extensive heat treating facilities for wire and finished products; mechanical packaging facilities for fasteners

THE STEEL COMPANY OF CANADA, LIMITED

Hamilton, Ontario, Canada

Contact: J. Vekemans

Tel: (416) 528-2511, extension 3131

Telex: 021621 Cable: STELCO HAMILTON



The Steel Company of Canada, Limited was formed in 1910 when several bolt and screw manufacturers consolidated. Since then, and particularly in the past few years, modern buildings and equipment have been acquired to make this company, well known as STELCO, a leader in the supply of high quality fasteners to the automotive and agricultural industries, to railways and general manufacturing trades in Canada and throughout the world. The Fastener Division, which had its beginning in 1866, has the advantage that raw materials are supplied from the company's own steel making facilities.

PLANT LOCATIONS

The Steel Company of Canada, Limited
Canada Works

Hamilton, Ontario, Canada
and

Swansea Works

Toronto, Ontario, Canada

Brantford Works

Brantford, Ontario, Canada

Notre Dame Works

Montreal, Quebec, Canada

Premier Works

Edmonton, Alberta, Canada

TYPES OF PRODUCTS

Bolts — standard and special, structural, rock (mining); screws — machine, wood, set, tapping, thread cutting, thread forming, cap; nuts, rivets, SEMS, spikes, threaded rods, B-7 studs, washers, cotter pins, tie rods, track fasteners, wharf materials; nails in complete size range and variety of finishes

COMPOSITION

Steel, stainless steel, brass, bronze, copper, aluminum

MANUFACTURING PROCESSES

Cold and hot formed, rolled and cut threaded, cold punched (nuts and washers)

SIZE RANGE

Diameter $\frac{1}{8}$ " - 4" (1.588 mm - 101.6 mm)
in all practical lengths

MANUFACTURING SPECIFICATIONS

CSA; USAS; IFI; SAE; metric; military

SPECIAL FACILITIES AND SERVICES

Complete heat treating facilities, hot and electro-galvanizing; cadmium, nickel, brass, bronze, chromium plating; phosphate coating; mechanical zinc plating; complete testing facilities

THOMSON (CANADA) RIVET CO. LIMITED

290 Fourth Street
Gananoque, Ontario, Canada

Contact: J. W. Wing

Tel: (613) 382-2181

Telex: 026-213



Thomson (Canada) Rivet Co. Limited has increased plant facilities by 400 per cent since the company went into production in 1950. Close liaison with United States and British rivet manufacturers assists Thomson to keep abreast of technical advances in the cold heading industry and only machinery of the latest design is used by this Ontario company.

PLANT LOCATION

Thomson (Canada) Rivet Co. Limited
290 Fourth Street
Gananoque, Ontario, Canada

TYPES OF PRODUCTS

Rivets — bifurcated, tubular and semi-tubular, sheet metal, blind, turned shoulder and specialties; shoe hooks; automatic rivet setting machines (standard and custom built)

COMPOSITION

Low carbon steel, stainless steel, copper, brass, aluminum, precious metals

MANUFACTURING PROCESS

Cold heading, plus secondary operations (slotting, drilling, turning)

SIZE RANGE

.045" - .375" (1.143 mm - 9.525 mm) diameter; lengths .062" - 3" (1.575 mm - 76.2 mm)

MANUFACTURING SPECIFICATIONS

CSA; ASA; SAE; government and military certification supplied when required

SPECIAL FACILITIES AND SERVICES

Heat treating, all electroplated finishes and baked enamels

TRIPLEX ENGINEERING CO. LTD.

181 Oneida Drive
Pointe Claire, Quebec, Canada

Contact: P. Braun, general manager
Tel: (514) 695-9872



Triplex Engineering Co. Ltd. is capable of complete manufacture from raw material to finished mechanical assembly. From an up-to-date plant in Quebec comes high volume production of special fasteners and components, using such mass production equipment as single and multi-spindle automatic lathes, punch and hydraulic presses, tapping, grinding and thread rolling machines. Triplex has expanded steadily in size and scope since it was founded in 1952 and employs a highly skilled staff of engineers, tool designers and machinists.

PLANT LOCATION

Triplex Engineering Co. Ltd.
181 Oneida Drive
Pointe Claire, Quebec, Canada

TYPES OF PRODUCTS

Special nuts, bolts, screws, washers, spacers; threaded rods; plain and threaded wire hooks; screw machine products

COMPOSITION

Mild and stainless steels, bronze, brass, copper, aluminum, aircraft alloys, precious metals, plastics

MANUFACTURING PROCESSES

Screw machine, roll threaded, stamped

SIZE RANGE

Products from rod and bar up to 2 1/4" (57.15 mm) diameter — Products from coiled wire up to 1/4" (6.35 mm) diameter

MANUFACTURING SPECIFICATIONS

AS; BSF; BSW; metric; aircraft component approval; Canadian and U.S. military approval

SPECIAL FACILITIES AND SERVICES

Spot and induction welding; spark erosion; wire straightening and forming; mechanical assembly; all heat treating and plating finishes

WESTERN CANADA STEEL LIMITED

450 S.E. Marine Drive
Vancouver 15, British Columbia, Canada

Contact: N. Darling
Tel: (604) 325-2271
Telex: 045389



The Fastener Division of Western Canada Steel Limited has a distinguished record of achievement under the name, Pacific Bolt Company. It was Pacific which formed the basis of Western's modern steel melting and rolling facilities. Over the years since the 1940's the parent Vancouver company has earned a reputation for excellent service and dependable products in the fastener field. Western was further strengthened when it became a wholly-owned subsidiary of the internationally known Cominco Limited in 1964. Western Canada Steel Limited has since continued its program of expansion and development as a leading Canadian producer of steel and steel products.

PLANT LOCATION

Western Canada Steel Limited, Fastener Division
450 S.E. Marine Drive
Vancouver 15, British Columbia, Canada

TYPES OF PRODUCTS

Hot forged and cold finished bolts, nuts, washers, threaded rods, track and bridge spikes, rivets, pipe and tank bands; specialty forgings

COMPOSITION

Full range carbon steel 1006 to 1090 (AISI grades); mild and heat treated; light and medium alloys on application

MANUFACTURING PROCESSES

Hot and cold formed, roll and cut thread

SIZE RANGE

Diameter $\frac{3}{8}$ " - $2\frac{1}{2}$ " (9.525 mm - 63.5 mm);
lengths $\frac{1}{2}$ " - 60' (12.70 mm - 18,288 mm)

MANUFACTURING SPECIFICATIONS

AS; CSA; ASTM; Lloyd's Certification

SPECIAL FACILITIES AND SERVICES

Complete physical and chemical laboratory facilities; galvanizing and plating available

WHITEHOUSE FASTENINGS (CANADA) LIMITED

25 Kelfield Street
Rexdale, Ontario, Canada
Contact: William A. Wood, Jr.
(Montreal)
Tel: (514) 382-2886



Whitehouse Fastenings (Canada) Limited has been a major manufacturer-distributor of fastenings for industry throughout its 73-year history. Production is concentrated exclusively on headed and machined fastenings of stainless steel and non-ferrous metals. An old-established company with young ideas, Whitehouse has recently improved manufacturing facilities and installed new machinery for cold heading and thread rolling machine screws, and tapping screws. Whitehouse has a definite interest in export markets.

PLANT LOCATIONS

Whitehouse Fastenings (Canada) Limited
25 Kelfield Street
Rexdale, Ontario, Canada
and
1170 de Louvain Street West
Montreal 11, Quebec, Canada

TYPES OF PRODUCTS

Cold heading, stainless steel machine screws and tapping screws; stainless steel and non-ferrous hot forged bolts and special machined fastenings

COMPOSITION

Specialists in stainless steel (numerous alloys), aluminum, brass, naval bronze, silicon bronze, titanium, Monel, high nickel content alloys

MANUFACTURING PROCESSES

Cold forming, hot forging, rolled and cut threads, hand screw machine work, punching, broaching and bending

SIZE RANGE

Stainless steel machine screws and tapping screws from No. 2 size to $\frac{1}{4}$ " (6.35 mm) diameter; lengths to $2\frac{1}{2}$ " (63.5 mm); stainless steel and non-ferrous hot forged bolts $\frac{1}{4}$ " - $1\frac{1}{8}$ " (6.35 mm - 28.575 mm) diameter, any length; special fastenings (not commonly stocked) machined, punched, cut threads in sizes normally used by Canadian industry

MANUFACTURING SPECIFICATIONS

Usually UNC and UNF; other specifications as ordered

SPECIAL FACILITIES AND SERVICES

Custom fastenings produced to suit customer specifications

WILLOW MANUFACTURING COMPANY LIMITED

21 Sable Street
Toronto 15, Ontario, Canada

Contact: J. W. Wild
Tel: (416) 247-7836



Willow Manufacturing Company Limited has been shipping custom products across Canada and into export markets for 17 years. Diversified facilities allow the company to machine any item up to and including 12" (304.8 mm) diameter. Willow can supply equipment of special size, material, thread or shape, as well as standard types. Among the company's varied facilities are screw machines, turret lathes, and ancillary equipment. Working from a sample or blueprint, Willow guarantees prompt price and delivery date estimates.

PLANT LOCATION

Willow Manufacturing Company Limited
19 - 23 Sable Street
Toronto 15, Ontario, Canada

TYPES OF PRODUCTS

Set, machine, cap and special screws;
taper pins; nuts; brass and stainless
steel fittings; milled studs; special gears

COMPOSITION

Steel, stainless steel, brass, bronze,
Monel, aluminum, titanium

MANUFACTURING PROCESSES

Cold and hot formed, roll threaded,
screw machine

SIZE RANGE

To 12" (304.8 mm) diameter

MANUFACTURING SPECIFICATIONS

To any customer specifications

SPECIAL FACILITIES AND SERVICES

Supplies completely assembled
components, heat treated and plated with
wide range of platings or any finish;
complete facilities for secondary
operations; short as well as long
production runs; inspection by
the latest quality control methods

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For further information on Canada's metal fastener industry, write to:

Iron and Steel Division
Materials Branch
Departments of Industry and Trade and Commerce
Tower B, Place de Ville
112 Kent Street
Ottawa, Ontario, Canada

or contact your nearest Canadian trade office